

**August 2013
New FM Translator
Ariel, Washington Channel 248D
Allocation Study**

The attached spacing study shows the spacing between the proposed translator site and the location of cochannel and adjacent channel stations and proposals. This study was made with the Commission's Class A spacing requirements, and individual situations were examined to determine the lack of prohibited contour overlap per the requirements of §74.1204 of the Rules. The attached allocation study map demonstrates compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204.

The proposed translator transmitter site is located within the 60 dBu protected contours of second-adjacent channel stations KYCH-FM 246C Portland and KXPC 250C1 Aloha. The attached map of the proposed transmitter site depicts the 100 dBu contour from the proposed facility, which extends just 99 meters from the transmitting antenna per a Free Space calculation. There is no population within this contour; the only buildings within this contour are associated with communications sites. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KYCH-FM and KXPC.

The attached spacing study demonstrates compliance with §73.207 of the Commission's Rules regarding spacing restrictions to stations which are 53 or 54 channels removed from the proposed operation.

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SEARCH PARAMETERS FM Database Date: 130819

Channel: 248A 97.5 MHz
 Latitude: 46 0 59
 Longitude: 122 46 28
 Safety Zone: 50 km
 Job Title: ARIEL 248

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KYCHaux LIC	PORTLAND OR	BLH-950606KD	246C 97.1	40.000 305.0	45-29-20 122-41-40	173.9	58.96 0.00	0 AUX
KYCH-FM LIC	PORTLAND OR	BLH-900821KA	246C 97.1	100.000 386.0	45-29-20 122-41-40	173.9	58.96 -36.04	95 SHORT
KIROaux LIC	TACOMA WA	BXLH-01018ACH	247C 97.3	50.000 388.0	47-32-35 122-06-25	16.4	177.20 0.00	0 AUX
KIROaux LIC	TACOMA WA	BXLH-940302KB	247C 97.3	20.000 691.0	47-30-14 121-58-29	19.9	176.29 0.00	0 AUX
KIRO-FM LIC	TACOMA WA	BLH-891018KC	247C 97.3	55.000 729.0	47-30-14 121-58-29	19.9	176.29 11.29	165 CLEAR
KNLR LIC	BEND OR	BLH-850114LW	248C1 97.5	97.000 163.0	44-04-38 121-19-49	151.7	243.69 43.69	200 CLEAR
KSHL LIC	GLENEDEN BEACH OR	BLH-81119AHE	248C2 97.5	7.000 259.0	44-45-24 124-02-53	215.8	171.90 5.90	166 CLOSE
VAC	MANZANITA OR	RM-11631	248C3 97.5	0.000 0.0	45-41-05 123-54-38	247.7	95.64 -46.36	142 SHORT
K248BS LIC	NEWBERG OR	BLFT-90521AFN	248D 97.5	0.003 451.0	45-21-17 122-59-22	192.9	75.42 0.00	0 TRANS
K248BS CP	NEWBERG OR	BPFT-30328AOY	248D 97.5	0.065 451.0	45-21-17 122-59-22	192.9	75.42 0.00	0 TRANS
NEW-T APP	SALEM OR	BNPFT-30317IBK	248D 97.5	0.015 320.0	44-51-18 123-07-15	191.9	131.89 0.00	0 TRANS
NEW-T APP	ARIEL WA	BNPFT-30317KLO	248D 97.5	0.002 546.0	46-00-59 122-46-28	0.0	0.00 0.00	0 TRANS
KOMO-FM APP	BELFAIR WA	BMPH-10630AGT	249C 97.7	69.000 701.0	47-18-46 123-22-15	342.7	151.17 -13.83	165 SHORT

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SEARCH PARAMETERS

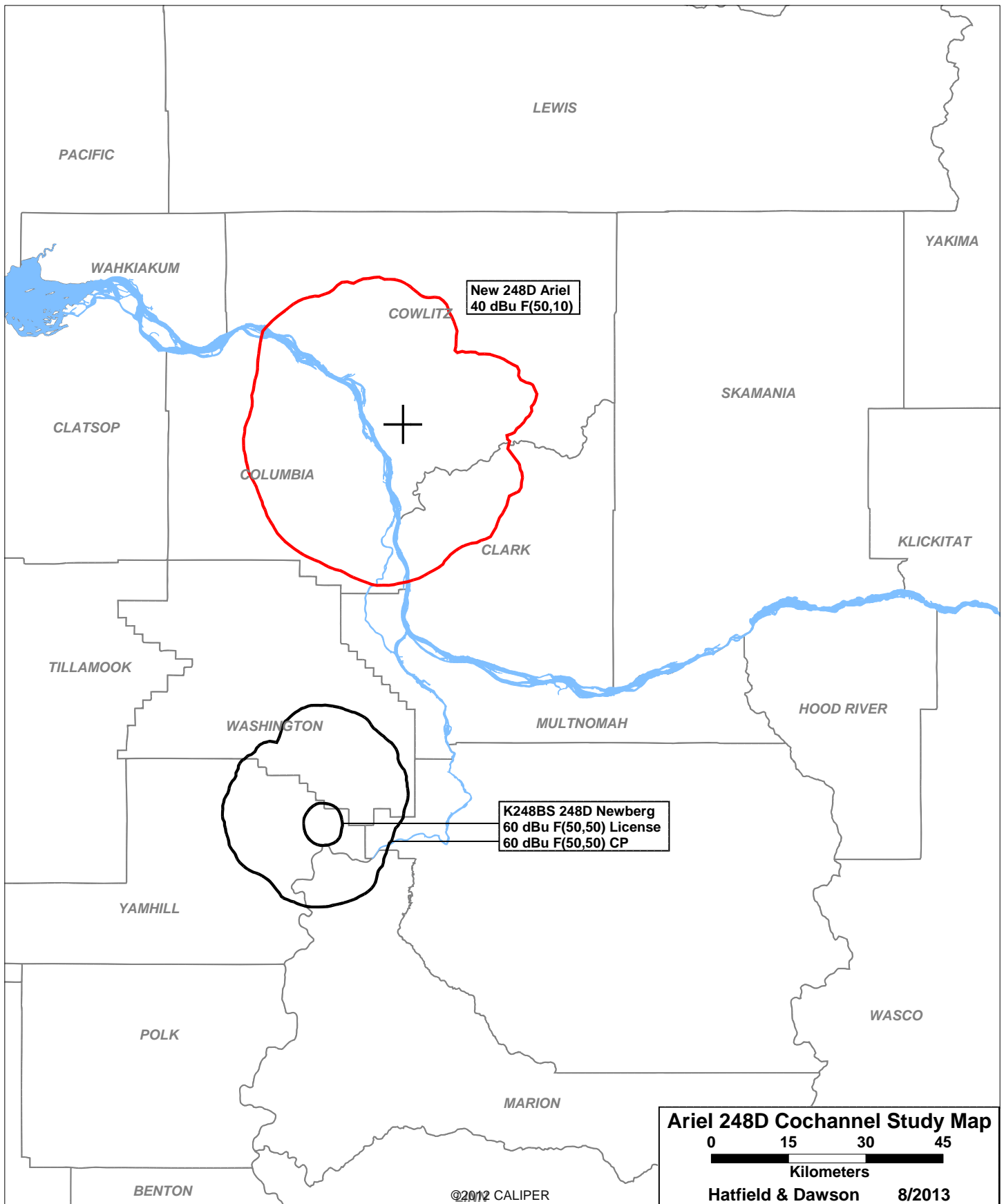
FM Database Date: 130819

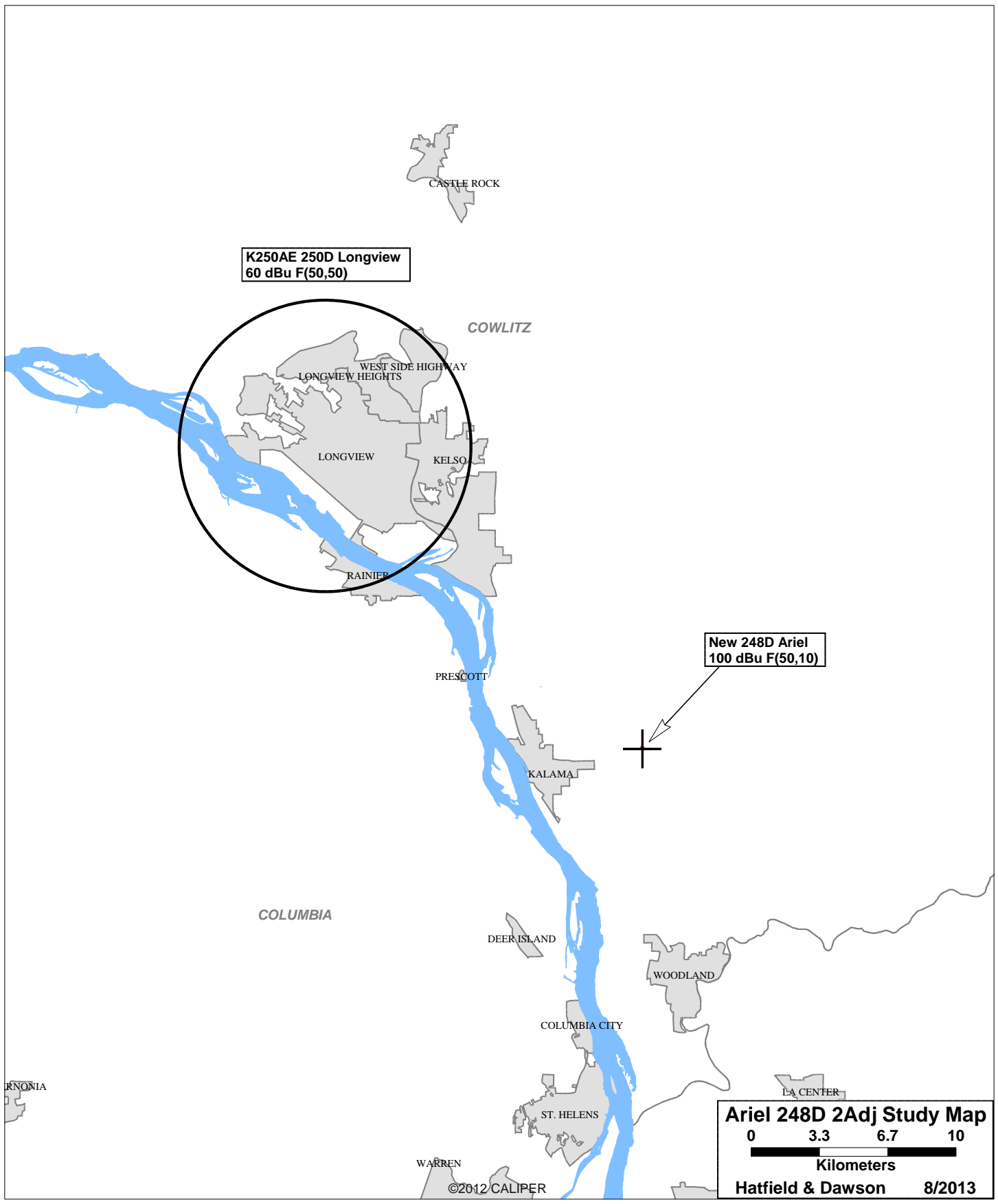
Channel: 248A 97.5 MHz
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 Job Title: ARIEL 248

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KOMO-FM RSV	BELFAIR WA -		249C 97.7	0.000 0.0	47-18-46 123-22-15	342.7	151.17 -13.83	165 SHORT
KOMO-FM LIC	OAKVILLE WA BLH-20927AEZ		249C 97.7	69.000 DA 701.0	47-18-46 123-22-15	342.7	151.17 -13.83	165 SHORT
KOMOaux LIC	OAKVILLE WA BXLH-90728ACZ		249C 97.7	16.500 DA 701.0	47-18-46 123-22-15	342.7	151.17 0.00	0 AUX
K249CQ LIC	PACKWOOD WA BLFT-80812ACZ		249D 97.7	0.041 574.0	46-36-09 121-38-08	52.9	109.28 0.00	0 TRANS
KOMOaux LIC	RAYMOND WA BXLH-50406ACE		249C1 97.7	0.500 673.0	46-58-31 123-08-16	345.5	110.18 0.00	0 AUX
KXPC CP MOD	ALOHA OR BMPH-30715ADO		250C1 97.9	10.000 472.0	45-31-21 122-44-45	177.7 SS	54.94 -20.06	75 SHORT
K250AE LIC	LONGVIEW WA BLFT-80623ABZ		250D 97.9	0.250 18.0	46-08-57 122-58-29	313.8	21.40 0.00	0 TRANS
NEW-T APP	CENTRALIA WA BNPFT-30812ABK		251D 98.1	0.050 0.0	46-40-08 122-57-50	348.7	73.98 0.00	0 TRANS

===== END OF FM SPACING STUDY FOR CHANNEL 248 =====





K250AE 250D Longview
60 dBu F(50,50)

COWLITZ

WEST SIDE HIGHWAY
LONGVIEW HEIGHTS

LONGVIEW

KELSO

RAINIER

PRESCOTT

KALAMA

New 248D Ariel
100 dBu F(50,10)

COLUMBIA

DEER ISLAND

WOODLAND

COLUMBIA CITY

ST. HELENS

LA CENTER

WARREN

©2012 CALIPER

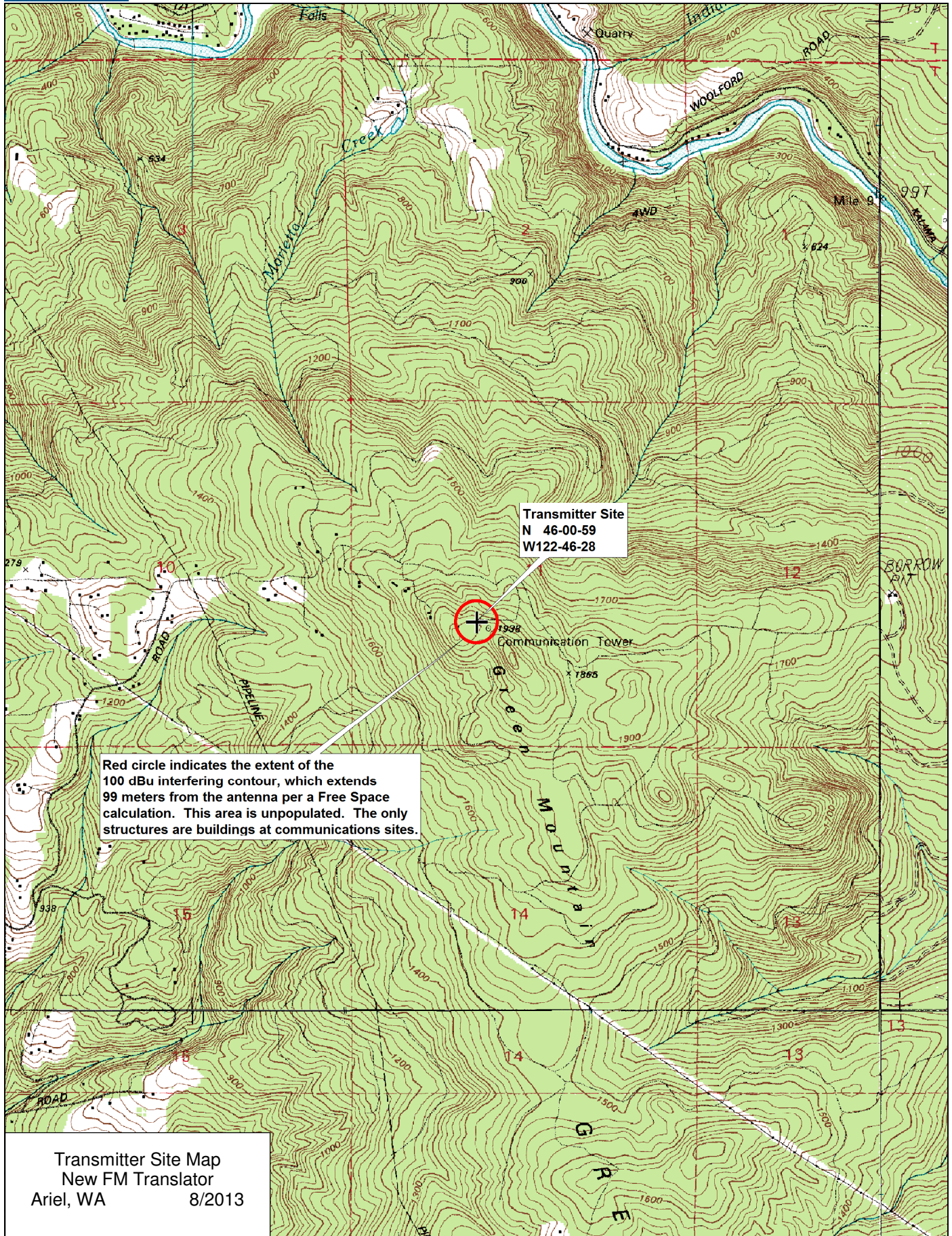
Ariel 248D 2Adj Study Map

0 3.3 6.7 10

Kilometers

Hatfield & Dawson

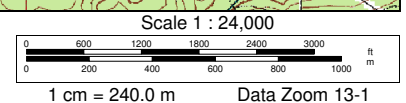
8/2013



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**August 2013
New FM Translator
Ariel, Washington Channel 248D
RF Exposure Study**

Facilities Proposed

The proposed operation will be on Channel 248D (97.5 MHz) with an effective radiated power of 2 watts. Operation is proposed with an antenna to be mounted on an existing tower on Green Mountain.

The proposed antenna support structure will not exceed 60.96 meters (200 feet) above ground and does not require notification to the Federal Aviation Administration. Therefore, this structure does not require an Antenna Structure Registration Number.

RF Exposure Calculations

Section 1.1307(b)(1) of the Commission's Rules exempts FM translators and boosters operating with an effective radiated power of 100 watts or less from the requirement to submit an Environmental Assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency electromagnetic fields. The applicant proposes operation with a maximum lobe effective radiated power of 4 watts (2 watts H + 2 watts V) and therefore no calculations have been submitted. Nonetheless, public access to the site is restricted and all station personnel and contractors are required to follow appropriate safety procedures, including turning off the transmitter if necessary, prior to commencing work on the antenna tower.